

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A plant-cultivating ~~device~~ system comprising:  
a container having a shape capable of receiving a plant ~~body~~ to be cultivated;  
~~comprising;~~  
an aqueous fertilizer solution accommodated in said container; and  
a non-porous hydrophilic film capable of being substantially integrated with the root of  
the plant body for cultivating a plant thereon, said non-porous hydrophilic film being placed on  
said aqueous fertilizer solution in a manner such that the lower surface of said non-porous  
hydrophilic film is in contact with the surface of the aqueous fertilizer solution; and  
~~supply means for allowing water containing a fertilizer component or a biologically~~  
~~active substance to be contacted with the plant body through at least the film.~~
  
2. (Currently Amended) A plant-cultivating ~~device~~ system according to claim 1,  
wherein the film is ~~one showing a difference in the electric conductivity (EC) in a water/saline~~  
~~solution system at the time of four days (96 hours) after the start of measurement is 4.5 dS/m or~~  
~~less, when the water and saline solution in the system are brought into contact through the film~~  
~~so that the water and saline solution face each other through the film~~ shows an electrical  
conductivity (EC) difference of 4.5 dS/m or less as determined by a method comprising  
contacting water with a saline solution having a salt concentration of 0.5 % by weight through  
said nonporous hydrophilic film, measuring respective electrical conductivities of the water and  
the saline solution 4 days (96 hours) after the start of the contact, and calculating the difference  
in electrical conductivity as between the water and the saline solution.

**Appln No. 10/542,392**

**Amdt date February 20, 2009**

**Reply to Office action of August 21, 2008**

3. (Currently Amended) A plant-cultivating ~~device~~ system according to claim 1, wherein the film is ~~one showing a difference in concentration (Brix %) of water/glucose solution system at the time of three days (72 hours) after the start of measurement is 4 or less, when the water and glucose solution in the system are brought into contact through the film so that the water and glucose solution face each other through the film~~ shows a Brix concentration (%) difference of 4 % or less as determined by a method comprising contacting water with a glucose solution having a glucose concentration of 5 % by weight through said nonporous hydrophilic film, measuring respective Brix concentrations (%) of the water and the glucose solution 3 days (72 hours) after the start of the contact, and calculating the difference in Brix concentration (%) as between the water and the glucose solution.

4. (Currently Amended) A plant-cultivating ~~device~~ system according to claim 1, wherein the film is ~~one showing a peeling~~ shows an integration strength of 10 g or more relative to roots of a plant with respect to the root of the plant body at the time of day 35 after the start of the cultivation of disposing the plant body at the inside (the opposite of the film side facing water) of the film in terms of a strength needed to peel off the roots of the plant from said film as measured by a method comprising cultivating a plant on the non-porous hydrophilic film in said plant-cultivating system, and peeling off roots of the plant from said film 35 days after the start of cultivation of the plant on said film to measure the strength (g) needed for the peeling.

5. (Currently Amended) A plant-cultivating ~~device~~ system according to claim 1, wherein the film has a water impermeability of 10 cm or more in terms of water pressure resistance as measured in accordance with JIS L1092 (method B).

6. (Currently Amended) A plant-film integrate, ~~comprising:~~  
~~——at least comprising a plant body and a non-porous hydrophilic film which has substantially been integrated with the root of the plant body, wherein the film comprises a non-porous hydrophilic film, wherein roots of said plant are integrated with said non-porous~~

hydrophilic film wherein said non-porous hydrophilic film shows an integration strength of 10 g or more relative to the roots of the plant in terms of a strength needed to peel off the roots of the plant from said film.

7. (Currently Amended) A plant-cultivating method, comprising:
- (1) providing a plant-cultivating ~~device~~ system comprising:
- a container having a shape capable of receiving a plant body to be cultivated, and  
comprising, as at least a portion thereof;  
an aqueous fertilizer solution accommodated in said container; and  
a non-porous hydrophilic film capable of being substantially integrated with the root of the plant body, placed on said aqueous fertilizer solution in a manner such that the lower surface of said non-porous hydrophilic film is in contact with the surface of said aqueous fertilizer solution;
- (2) disposing a plant ~~body~~ on said non-porous hydrophilic film in the ~~device~~ system; and
- (3) ~~cultivating the plant body while allowing the aqueous fertilizer solution water containing a fertilizer component or a biologically active substance to be contacted with the plant body through at least the film while allowing roots of the plant to grow on and get integrated with the film, to thereby cultivate the plant on said non-porous hydrophilic film.~~

8. (Currently Amended) A plant-cultivating method according to claim 7, wherein said plant cultivation system further comprises a plant-retaining support is disposed between the plant body and the disposed on said non-porous hydrophilic film.

9. (Cancelled)

10. (Currently Amended) A plant-cultivating ~~device~~ system according to claim [[9]]  
1, wherein the non-porous hydrophilic film is made of a material selected from the group

Appln No. 10/542,392  
Amdt date February 20, 2009  
Reply to Office action of August 21, 2008

consisting of polyvinyl alcohol (PVA), cellophane, cellulose acetate, cellulose nitrate, ethyl cellulose, and polyester.

11. (Currently Amended) A plant-cultivating ~~device~~ system according to claim 1, wherein the non-porous hydrophilic film ~~capable of being substantially integrated with the root of the plant body~~ has a thickness of ~~about~~ 5-200  $\mu\text{m}$ .

12. (Currently Amended) A plant-cultivating ~~device~~ system according to claim 1, wherein the non-porous hydrophilic film ~~capable of being substantially integrated with the root of the plant body~~ is laminated on a porous film ~~of another material~~.

13. (Currently Amended) A plant-cultivating ~~device~~ system according to claim [[1]] 12, wherein the porous film ~~of another material comprises~~ is an unwoven fabric film or a sponge film having communicating pores, ~~and~~ which is made of a material selected from the group consisting of polyethylene, polypropylene, polyethylene terephthalate, polyamide, polyvinyl alcohol, and cellulose.

14. (Cancelled)

15. (Cancelled)